

**TABLE 10.5**

**MORNING STAR MINE COST ESTIMATE  
DRAW DOWN AND EVAPORATE PAD NO. 2  
INCLUDE WITH ALTERNATIVES 2, 3 AND 4**

<b>ALTERNATIVES II, III and IV</b>	<b>Quant</b>	<b>Units</b>	<b>Unit \$</b>	<b>Cost</b>	<b>Notes</b>
<b>A. Design and Install Rinsing / Active Evaporation Systems on Heap Leach Pads</b>					
1. Detailed Design	1	LS	\$20,000	\$20,000	Expand Interim Measures
2. Construction Management	1	LS	\$22,000	\$22,000	
3. Mobilization / De-Mobilization					
1. Equipment	3	EA	\$1,000	\$3,000	
2. Supplies	1	LS	\$1,000	\$1,000	
4. Site Support	1	LS	\$2,500	\$2,500	
			<b>Subtotal</b>	<b>\$48,500</b>	
5. Installation					
a. Piping	4,500	LF	\$3	\$13,500	
b. Drips / Lines / Fittings	100	EA	\$20	\$2,000	
c. Spray Heads	300	EA	\$15	\$4,500	
d. Misc. Supplies	5	EA	\$500	\$2,500	
e. Labor	240	HR	\$55	\$13,200	
			<b>Subtotal</b>	<b>\$35,700</b>	
<b>B. Operation and Maintenance</b>					
1. Draw Down and Evaporate Pad No.2					
a. Diesel Pump (rent)	8	MO	\$1,750	\$14,000	720 hours per month
b. Fuel (4 gph-8 months)	23,040	GAL	\$2	\$43,776	
c. Operator / Fueler	1,250	HR	\$55	\$68,750	
d. Per Diem	240	DAY	\$90	\$21,600	
e. Transportation	8	MO	\$1,600	\$12,800	w/ fuel tank.
f. Misc. Supplies	4	EA	\$500	\$2,000	
			<b>Subtotal</b>	<b>\$162,926</b>	
<b>C. Install Evaporation Systems at PSP</b>					
1. Install Passive System					
a. Piping	800	LF	\$3	\$2,400	
b. Drips / Lines / Fittings	1,000	LF	\$3	\$3,000	
c. Geotextile	200	SY	\$2	\$300	
d. Labor	100	HR	\$55	\$5,500	
2. Install Enhanced System	1	LS	\$25,000	\$25,000	
3. Maintenance	1	LS	\$4,000	\$4,000	
			<b>Subtotal</b>	<b>\$40,200</b>	
<b>D. Monitoring</b>					
a. Water Monitoring	20	SMPL	\$260	\$5,200	1 sample every 2 weeks
			<b>Subtotal</b>	<b>\$5,200</b>	
<b>DRAW DOWN AND EVAPORATE PAD NO. 2</b>				<b>Subtotal</b>	<b>\$292,526</b>
				<b>Contingency / Indirect 10%</b>	<b>\$29,253</b>
				<b>TOTAL COST</b>	<b>\$321,779</b>

**Assumptions:**

Davis - Bacon Wages

**Notes:**

LS Lump Sum  
SY Square Yard  
EA Each  
LF Linear Feet  
HR Hours

MO Month  
GAL Gallons  
DAY Day  
SMPL Sample  
WK Week